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P64

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Moulded inorganic prods. mfr. - by forming plasticised compsn. from water, hydraulic cement and clay and extruding into required shape

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07.10.81 as 160656 (59KB)

Plasticised compsn. is prep'd. by adding water into a mixt. of hydraulic cement (30-90 pts. wt.) and layer clay mineral (70-10 pts. wt.) in a sufficient amt. required for plasticising the mixt. or dewatering an aq. slurry of the mixt. for plasticising the mixt. and extruded to form a shaped prod. The extrusion of plasticised cement/clay mixt. facilitates the operation through an extruder to extrude a prod. having high extrusion resistance under relatively lower pressure.

Pref. hydraulic cement is white Portland cement, alumina cement, ordinary Portland cement, rapid hardening or moderate heat cement, jet cement, thermosetting cement, blast furnace cement, fly ash cement, silica cement, expansive cement and opt. blended with an expansive agent (e.g. ettringite-forming compsn. or $\text{Ca}(\text{OH})_2$ -forming agent) for compensating the contraction of cement. The clay or clay material is typically kaolin or plastic clay. The mixt. is opt. blended with silica stone for forming tober-morite or xonotolite by steam ageing or reinforcing material (e.g. asbestos, rock wool, glass fibre, Nylon fibre, carbon filament or steel filament) or other additives (e.g. limestone, blast furnace slag, Ca silicate, $\text{Al}(\text{OH})_3$, Al_2O_3 or ZrO_2). (3pp)

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